

Patent Assignment Abstract of Title

Total Assignments: 1**Application #:** 10603593 **Filing Dt:** 06/25/2003**Patent #:** NONE**Issue Dt:****PCT #:** NONE**Publication #:** NONE**Pub Dt:****Inventor:** Yogesh Swami**Title:** System and method for optimizing link throughput in response to non-congestion-related packet loss**Assignment: 1**

Reel/Frame: <u>014526/0654</u>	Received: 09/30/2003	Recorded: 09/26/2003	Mailed: 04/23/2004	Pages: 3
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Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** SWAMI, YOGESH**Exec Dt:** 07/30/2003**Assignee:** NOKIA CORPORATION
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FIN-02150 ESPOO, FINLAND**Correspondent:** CRAWFORD MAUNU PLLC
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ST. PAUL, MN 55120

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1 A comparison of mechanisms for improving TCP performance over wireless links
Balakrishnan, H.; Padmanabhan, V.N.; Seshan, S.; Katz, R.H.;
 Networking, IEEE/ACM Transactions on , Volume: 5 , Issue: 6 , Dec. 1997
 Pages:756 - 769

[\[Abstract\]](#) [\[PDF Full-Text \(368 KB\)\]](#) IEEE JNL

2 Delay performance of the new explicit loss notification TCP technique in wireless networks
Wenqing Ding; Jamalipour, A.;
 Global Telecommunications Conference, 2001. GLOBECOM '01. IEEE , Volume: 6 , 25-29 Nov. 2001
 Pages:3483 - 3487 vol.6

[\[Abstract\]](#) [\[PDF Full-Text \(246 KB\)\]](#) IEEE CNF

3 PET: enhancing TCP performance over 3G & beyond networks
Li, V.H.; Zhi-Qiang Liu;
 Vehicular Technology Conference, 2003. VTC 2003-Fall. 2003 IEEE 58th , Volu 4 , 6-9 Oct. 2003
 Pages:2302 - 2306 Vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(957 KB\)\]](#) IEEE CNF

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Results Key:

JNL = Journal or Magazine **CNF** = Conference **STD** = Standard**1 Stutter XOR strategies: a new class of multicopy ARQ strategies***Aghadavoodi Jolfaei, M.;*

Network Protocols, 1994. Proceedings., 1994 International Conference on , 25 Oct. 1994

Pages:56 - 62

[\[Abstract\]](#)[\[PDF Full-Text \(520 KB\)\]](#)**IEEE CNF**

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(L41 AND THROUGHPUT).USPT.	4

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<u>L40</u>	L39 and congestion	7	<u>L40</u>
<u>L39</u>	packet adj loss and recovery adj procedure	30	<u>L39</u>
<u>L38</u>	non-congestion and packet adj loss	8	<u>L38</u>
<u>L37</u>	first adj recovery and second adj recovery and packet adj loss	0	<u>L37</u>
<u>L36</u>	L35 and recovery	3	<u>L36</u>
<u>L35</u>	L34 and congestion	6	<u>L35</u>
<u>L34</u>	packet adj loss adj bit	13	<u>L34</u>
<u>L33</u>	L32	3	<u>L33</u>
<u>L32</u>	L30 and bit adj error	3	<u>L32</u>

<u>L31</u>	L30 and error adj bit	0	<u>L31</u>
<u>L30</u>	L27 and recovery	5	<u>L30</u>
<u>L29</u>	L27 and loss adj recovery	0	<u>L29</u>
<u>L28</u>	noncongestion and packet adj loss	1	<u>L28</u>
<u>L27</u>	non-congestion and packet adj loss	8	<u>L27</u>
<u>L26</u>	L25 and increase adj throughput	1	<u>L26</u>
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<u>L23</u>	loss adj recovery and packet adj loss	68	<u>L23</u>
<u>L22</u>	first adj loss adj recovery and second adj loss adj recovery	0	<u>L22</u>
<u>L21</u>	L9 and packet adj loss adj bit	10	<u>L21</u>
<u>L20</u>	L16 and recovery	2	<u>L20</u>
<u>L19</u>	L16 and identification	1	<u>L19</u>
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<u>L17</u>	L16 and non-congestion	0	<u>L17</u>
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<u>L10</u>	L9 and congestion	111	<u>L10</u>
<u>L9</u>	packet adj loss and bit adj errors	282	<u>L9</u>
<u>L8</u>	PLB and packet adj loss	0	<u>L8</u>
<u>L7</u>	L6 and PLB	0	<u>L7</u>
<u>L6</u>	l2 and packet adj loss	44	<u>L6</u>
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<u>L4</u>	L2 and noncongestion	0	<u>L4</u>
<u>L3</u>	L2 and non-congestion	0	<u>L3</u>
<u>L2</u>	increase adj throughput	6199	<u>L2</u>
<u>L1</u>	optimizing adj link adj throughput	0	<u>L1</u>

END OF SEARCH HISTORY

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Search Results -

Term	Documents
BIT	283910
BITS	194973
ERROR	332363
ERRORS	185143
(30 AND (BIT ADJ ERROR)).USPT.	3
(L30 AND BIT ADJ ERROR).USPT.	3

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<u>L30</u>	L27 and recovery	5	<u>L30</u>
<u>L29</u>	L27 and loss adj recovery	0	<u>L29</u>
<u>L28</u>	noncongestion and packet adj loss	1	<u>L28</u>
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<u>L26</u>	L25 and increase adj throughput	1	<u>L26</u>
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<u>L24</u>	L23 and congestion	30	<u>L24</u>

<u>L23</u>	loss adj recovery and packet adj loss	68	<u>L23</u>
<u>L22</u>	first adj loss adj recovery and second adj loss adj recovery	0	<u>L22</u>
<u>L21</u>	L9 and packet adj loss adj bit	10	<u>L21</u>
<u>L20</u>	L16 and recovery	2	<u>L20</u>
<u>L19</u>	L16 and identification	1	<u>L19</u>
<u>L18</u>	L16 and non-congested	0	<u>L18</u>
<u>L17</u>	L16 and non-congestion	0	<u>L17</u>
<u>L16</u>	L15 and congestion	2	<u>L16</u>
<u>L15</u>	L14 and packet adj loss	2	<u>L15</u>
<u>L14</u>	L13 and increase adj throughput	11	<u>L14</u>
<u>L13</u>	370/229.ccls.	445	<u>L13</u>
<u>L12</u>	L11 and increase adj throughput	1	<u>L12</u>
<u>L11</u>	L10 and recovery	68	<u>L11</u>
<u>L10</u>	L9 and congestion	111	<u>L10</u>
<u>L9</u>	packet adj loss and bit adj errors	282	<u>L9</u>
<u>L8</u>	PLB and packet adj loss	0	<u>L8</u>
<u>L7</u>	L6 and PLB	0	<u>L7</u>
<u>L6</u>	l2 and packet adj loss	44	<u>L6</u>
<u>L5</u>	L2 and non-congested	1	<u>L5</u>
<u>L4</u>	L2 and noncongestion	0	<u>L4</u>
<u>L3</u>	L2 and non-congestion	0	<u>L3</u>
<u>L2</u>	increase adj throughput	6199	<u>L2</u>
<u>L1</u>	optimizing adj link adj throughput	0	<u>L1</u>

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Term	Documents
NULL	40672
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(L47 AND NULL).USPT.	1

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<u>L48</u>	L47 and null
<u>L47</u>	L12 and zero
<u>L46</u>	l12 and empty
<u>L45</u>	L44
<u>L44</u>	L43
<u>L43</u>	empty adj packet adj loss
<u>L42</u>	L41 and throughput
<u>L41</u>	L40 and bit and error
<u>L40</u>	L39 and congestion
<u>L39</u>	packet adj loss and recovery adj procedure
<u>L38</u>	non-congestion and packet adj loss

Hit Count Set Name

result set

1	<u>L48</u>
1	<u>L47</u>
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4	<u>L42</u>
5	<u>L41</u>
7	<u>L40</u>
30	<u>L39</u>
8	<u>L38</u>

<u>L37</u>	first adj recovery and second adj recovery and packet adj loss	0	<u>L37</u>
<u>L36</u>	L35 and recovery	3	<u>L36</u>
<u>L35</u>	L34 and congestion	6	<u>L35</u>
<u>L34</u>	packet adj loss adj bit	13	<u>L34</u>
<u>L33</u>	L32	3	<u>L33</u>
<u>L32</u>	L30 and bit adj error	3	<u>L32</u>
<u>L31</u>	L30 and error adj bit	0	<u>L31</u>
<u>L30</u>	L27 and recovery	5	<u>L30</u>
<u>L29</u>	L27 and loss adj recovery	0	<u>L29</u>
<u>L28</u>	noncongestion and packet adj loss	1	<u>L28</u>
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<u>L15</u>	L14 and packet adj loss	2	<u>L15</u>
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<u>L3</u>	L2 and non-congestion	0	<u>L3</u>
<u>L2</u>	increase adj throughput	6199	<u>L2</u>
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File: USPT

Apr 9, 2002

US-PAT-NO: 6370114

DOCUMENT-IDENTIFIER: US 6370114 B1

**** See image for Certificate of Correction ****TITLE: Apparatus and method for optimizing congestion control information in a multi-protocol network

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gullicksen; Jeffrey T.	Santa Clara	CA		
Bernstein; Greg M.	Fremont	CA		
Chhabra; Gurpreet S.	Sunnyvale	CA		

US-CL-CURRENT: 370/229; 370/230, 370/395.52

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☐ 2. Document ID: US 5912878 A

L20: Entry 2 of 2

File: USPT

Jun 15, 1999

US-PAT-NO: 5912878

DOCUMENT-IDENTIFIER: US 5912878 A

TITLE: Method and end station with improved user reponse time in a mobile network

DATE-ISSUED: June 15, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Park; Sung-Woo	Vancouver			CA
Andjelic; Dragan	Vancouver			CA
Maini; Viji	Delta			CA

US-CL-CURRENT: 370/229; 370/232, 455/427

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Term	Documents
RECOVERY	202116
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RECOVERYS	4
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L12: Entry 1 of 1

File: USPT

May 4, 2004

US-PAT-NO: 6732314

DOCUMENT-IDENTIFIER: US 6732314 B1

TITLE: Method and apparatus for L2TP forward error correction

DATE-ISSUED: May 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Borella; Michael S.	Naperville	IL		
Schuster; Guido	Des Plaines	IL		
Sidhu; Ikhlqa S.	Vernon Hills	IL		
Mahler; Jerry	Prospect Heights	IL		

US-CL-CURRENT: 714/752; 714/776

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWC	Draw D
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INCREASES	840393
THROUGHPUT	81980
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(L11 AND INCREASE ADJ THROUGHPUT).USPT.	1

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